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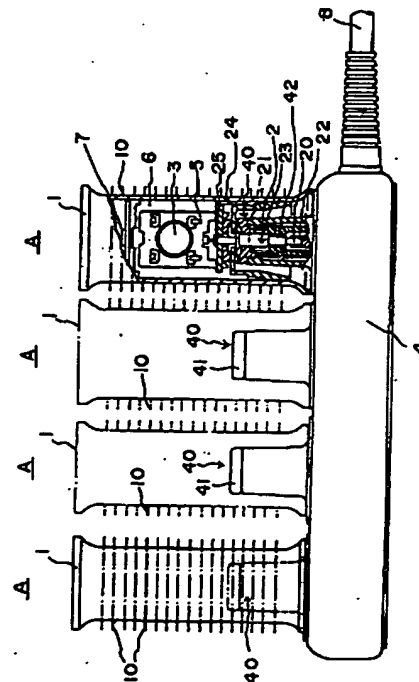
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(54)【考案の名称】 ホットカーラー

(57)【要約】

【課題】 しっかり、綺麗に、しかも早くカールをつけることができると共に、毛髪を痛めたり、つやをなくすることがなく、さらにはセット時間の短縮もはかることができるホットカーラーの提供。

【解決手段】 カーラーホビン1の内部にヒータ3を内蔵したプラグインタイプのホットカーラーAであって、前記カーラーホビン1を、多元素鉱物を粉碎して形成した多元素鉱物粉状体を混練した耐熱性樹脂で成形した。



(2)

特許第03045150

【実用新案登録請求の範囲】

【請求項1】 カラーホビンの内部にヒータを内蔵したプラグインタイプのホットカーラーであって、前記カラーホビンを、多元系鉱物を粉砕して形成した多元系鉱物粉状体を混練した耐熱性樹脂で成形したことを特徴とするホットカーラー。

【図面の簡単な説明】

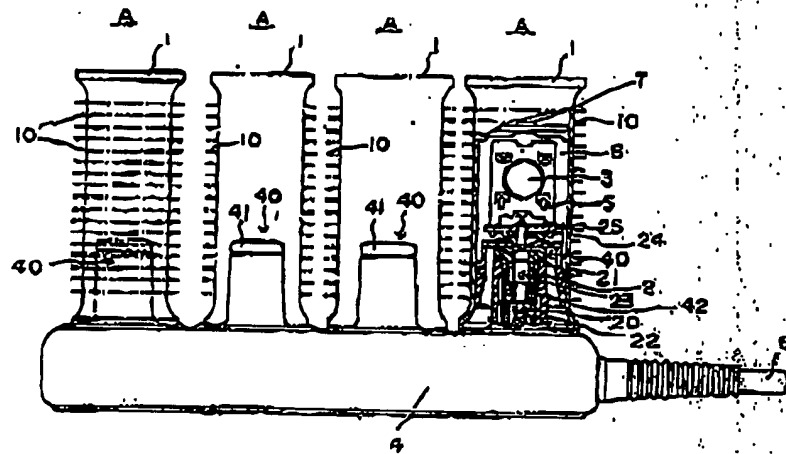
【図1】 本発明の実施の形態であるホットカーラーをホ

ットカーラー装着台のプラグ受けに装着している状態を示す説明図である。

【符号の説明】

- A ホットカーラー
- 1 カラーホビン
- 2 プラグ
- 3 ヒータ

【図1】



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【考案の詳細な説明】

【0001】

【考案の属する技術分野】

本考案は、カーラーホビンの内部にヒータを内蔵したプラグインタイプのホットカーラーの改良技術に関する。

【0002】

【従来技術】

ホットカーラーは、内部のヒータに通電させてそれを発熱させ、それでカーラーホビンを加熱したのちそれを髪の毛に巻いてピンで固定して髪の毛にカールを付けるものである。

【0003】

【考案が解決しようとする課題】

しかしながら、従来ホットカーラーは、カーラーホビンをプラスチックで成形しただけであったから、これを使用して髪の毛にカールをつけた場合、熱で毛髪を痛めたり、毛髪につやがなくなったり、細毛がセットしにくい等の問題があった。また、熱効率が悪いからセット時間の短縮ができない等という問題もあった。

本考案のホットカーラーは、かかる従来の問題点を解決するためになされたもので、その目的とするところは、しっかり、綺麗に、しかも早くカールをつけることができると共に、毛髪を痛めたり、つやをなくすことがなく、さらにはセット時間の短縮もはかることができる新規なホットカーラーを提供することにある。

【0004】

【課題を解決するための手段】

前記課題を解決するための手段として、本考案のホットカーラーでは、カーラーホビンの内部にヒータを内蔵したプラグインタイプのホットカーラーであって、前記カーラーホビン、多元系鉱物を粉砕して形成した多元系鉱物粉状体を混練した耐熱性樹脂で成形した構成を採用した。

【0005】

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本考案のホットカーラーでは、多元素鉱物を粉砕して形成した多元素鉱物粉状体を混練した耐熱性樹脂でカーラーホビンを形成しているから、多元素鉱物粉状体から発生するマイナスイオンの作用により、髪の毛に含まれる水の分子集団を細かくし、髪の毛の奥深くまで浸透し、それにより髪の毛の保湿バランスを整え、健康な状態に近づけた状態で、しっかりとした綺麗なカールをつけることができる。また、マイナスイオンの作用により毛髪の蛋白質が活性化するため毛髪は常に健康毛を維持することができる。また、マイナスイオンの作用で熱効率を高めることができるのでセット時間を短縮することができる。また、マイナスイオンの作用で微細化した水の分子が毛髪の奥深くまで浸透するため静電気を減らしてつやのある毛髪を維持することができる。

【0006】

【考案の実施の形態】

以下、本考案の実施の形態の一例を図面に基づいて詳細に説明する。

図1はこの実施の形態のホットカーラーをホットカーラー装着台のプラグ受けに装着して加熱している状態を示す説明図である。

本実施の形態のホットカーラーAは、カーラーホビン1と、プラグ2と、ヒータ3とを主要な構成としている。

【0007】

前記カーラーホビン1は、髪の毛に巻いて毛髪にカールをつけるためのもので、多元素鉱物を粉砕して形成した多元素鉱物粉状体を混練した耐熱性樹脂で筒状に形成している。耐熱性樹脂として、本実施の形態では、ポリエステル・エラストマーを使用している。10は髪の毛に巻き付けるためにカーラーホビン1の外周に多数形成した突起である

【0008】

多元素鉱物とは、例えば真珠岩、松脂岩やトルマリン（電気石）のように珪素を主成分とし、多数の元素がバランスよく含まれている鉱物をいう。この多元素鉱物、例えば、真珠岩をボールミル等で約1～3ミクロンに粉砕して多元素鉱物粉状体を形成する。多元素鉱物粉状体は、2種類以上を適宜配合して使用することが好ましい。尚、真珠岩は下記の成分からなるものである。

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【表1】

珪素酸系	(SiO_2)	71.94 %
酸化アルミニウム	(Al_2O_3)	14.94 %
酸化鉄	(Fe_2O_3)	2.54 %
酸化マグネシウム	(MgO)	0.44 %
酸化カルシウム	(CaO)	2.47 %
酸化アルカリ	($\text{K}_2\text{O} + \text{Na}_2\text{O}$)	5.87 %
酸化マンガン	(MnO)	0.03 %
結水珪酸	(P_2O_5)	0.14 %
焼灼減量		1.43 %
珪酸減量	(110℃における)	0.07 %
その他チタン		痕跡

【0009】

多元素鉱物粉状体は、これを粉状体のままポリエステル・エラストマーと混練させてもよいし、これを水と混合し加熱又は加圧した後、上澄み液をそのまま又は真空凍結乾燥や噴霧乾燥により粉末にしたものを使用してもよい。ポリエステル・エラストマーに対する多元素鉱物の混合割合は、前記粉状体の容量がポリエステル・エラストマーの約1～3%となるようにする。

【0010】

前記プラグ2は、ホットカーラー装着台4のプラグ受け40に挿入して内蔵しているヒータ3を発熱させるためのものである。プラグ2は中心導体20と外側導体21とで形成され、ヒータガイド5に装着されたヒータ3の両面に接触するように配置された2個の電極兼用の放熱板6（図面では手前側の放熱板は省略している。）にそれぞれ接続されている。したがって、プラグ2をプラグ受け40

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に挿入すると、ヒータ 3 に通電されてそれが発熱するように形成している。尚、図中 2 2 は中心導体 2 0 用の端子、2 3 は外側導体 2 1 用の端子、2 4 は中心導体 2 0 と一方の放熱板 6 とを接続する接続板である。外側導体 2 1 と他方の放熱板とを接続する接続板は省略している。2 5 はプラグかしめ合である。

【 0 0 1 1 】

前記ヒータ 3 は、カーラーホビン 1 を加熱するためのものである。本実施の形態では、P T C サーミスタを使用している。

尚、図中、4 1 はプラグ受け 4 0 のキャップ、4 2 はプラグガイド、7 はカーラーホビン 1 が適温になったことを知らせるためのサーモラベルで、加熱前は赤色で、加熱後は黒色となるように形成している。また、8 は電源コードである。

【 0 0 1 2 】

したがって、本実施の形態のホットカーラー A を使用するときには、図 1 に示すように、ホットカーラー A のプラグ 2 をホットカーラー装着台 4 のプラグ受け 4 0 に挿入して装着し、ヒータ 3 に通電してホットカーラー A が所定温度になるまで加熱する。そして、所定温度のなると、ホットカーラー A を取り外して、髪 of 毛に巻き付けピン（図示せず）で固定してカールを付ける。

【 0 0 1 3 】

本実施の形態のホットカーラー A では、多元素鉱物を粉碎して形成した多元素鉱物粉状体とを混練したポリエステル・エラストマーでカーラーホビン 1 を成形しているので、カーラーホビン 1 からマイナスイオンが発生し、それが毛髪中に含まれる水の分子集団を細かくし、髪 of 奥深くまで浸透し、それにより髪 of 保湿バランスを整え、健康な状態に近づいた状態で、しっかりとした綺麗なカールをつけることができる。また、マイナスイオンの作用により毛髪 of 蛋白質が活性化するため毛髪は常に健康毛を維持することができる。また、マイナスイオンの作用で熱効率を高めることができるのでセット時間を短縮することができる。また、マイナスイオンの作用で微細化した水 of 分子が毛髪 of 奥深くまで浸透するため静電気を減らしてつや of ある毛髪を維持することができる。また、マイナスイオンを髪に作用させることにより、ヘアカラー、パーマ、ヘアドライヤー of 当て過ぎにより損傷した毛髪 or 細毛でセットしにくい毛髪でもきれいにカールをつけるこ

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とができるようになる。

[0014]

以上、本考案の実施の形態を説明してきたが、本考案の具体的な構成は本実施の形態に限定されるものではなく、考案の要旨を逸脱しない範囲の設計変更等があっても本考案に含まれる。

[0015]

【考察の効果】

以上、説明してきたように、本考案のホットカーラーでは、カーラーホビンを多元素鉱物を粉砕して形成した多元素鉱物粉状体を混練した耐熱性樹脂で形成しているので、カーラーホビンからマイナスイオンが発生し、それが毛髪中の水分をミネラル化して毛髪中の蛋白質を活性化させ、常に健康毛でツヤのある毛髪とすることができる。多元素鉱物を粉砕して形成した多元素鉱物粉状体を混練した耐熱性樹脂でカーラーホビンを形成しているから、多元素鉱物粉状体から発生するマイナスイオンの作用により、髪の水分子に含まれる水の分子集団を細かくし、髪の奥深くまで浸透し、それにより髪の保湿バランスを整え、健康な状態に近づいた状態で、しっかりとした縮腰なカールをつけることができる。また、マイナスイオンの作用で熱効率を高めることができるのでセット時間を短縮することができる。また、マイナスイオンの作用で微細化した水の水分子が毛髪の奥深くまで浸透するため静電気を減らしてツヤのある毛髪を維持することができる。

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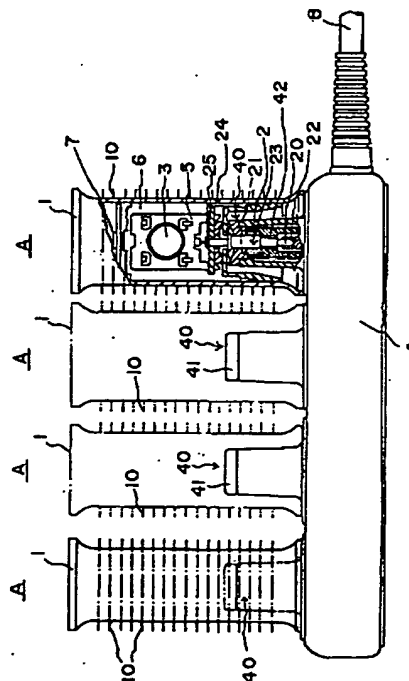
(74) 代理人 弁理士 平田 義則

(54) 【考案の名称】 ホットカーラー

(57) 【要約】

【課題】 しっかり、綺麗に、しかも早くカールをつけることができると共に、毛髪を痛めたり、つやをなくすることがなく、さらにはセット時間の短縮もはかることができるホットカーラーの提供。

【解決手段】 カーラーホビン1の内部にヒータ3を内蔵したプラグインタイプのホットカーラーAであって、前記カーラーホビン1を、多元素鉱物を粉碎して形成した多元素鉱物粉状体を混練した耐熱性樹脂で成形した。



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CLAIMS

[Utility model registration claim]

[Claim 1] The hot curler characterized by fabricating with the heat resistant resin which kneaded the multi-native element powdery part which was the hot curler of the plug-in type which contained the heater in the interior of curler HOBIN, ground many native elements and formed said curler HOBIN.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed explanation of a design]

[0001]

[The technical field to which a design belongs]

This design is related with the amelioration technique of the hot curler of the plug-in type which contained the heater in the interior of curler HOBIN.

[0002]

[Description of the Prior Art]

After making an internal heater energize a hot curler, and making it generate heat, then heating curler HOBIN, it is wound around the hair of hair, it fixes by the pin, and it attaches curl to the hair of hair.

[0003]

[Problem(s) to be Solved by the Device]

However, since the conventional hot curler only fabricated curler HOBIN with plastics, when curl was attached to the hair of hair using this, heat hurt its hair, or the luster of it was lost to hair, and it had the problem of being hard to set the vellus. Moreover, since thermal efficiency was bad, there was also a problem that compaction of setting time could not be performed etc.

Firmly, its hair is hurt or the place which it was made in order that the hot curler of this design might solve this conventional trouble, and is made into the purpose is to offer the new hot curler which cannot lose luster and can also aim at compaction of setting time further while being able to attach curl finely and early.

[0004]

[Means for Solving the Problem]

The configuration fabricated with the hot curler of this design as said The means for solving a technical problem with the heat resistant resin which kneaded the multi-native element powdery part which was the hot curler of the plug-in type which contained the heater in the interior of curler HOBIN, ground many native elements and formed said curler HOBIN was adopted.

[0005]

since curler HOBIN forms with the heat resistant resin which kneaded the multi-native element powdery part which ground and formed many native elements in the hot curler of this design, the molecule ensemble of the water contained in the hair of hair makes fine according to an operation of the anion generated from a multi-native element powdery part, hair is deep, until osmosis can carry out, the moisturization balance of hair can prepare by that cause, and beautiful firm curl can attach in the condition brought close to a healthy condition. Moreover, since the protein of hair is activated according to an operation of an anion, as for hair, health hair is always maintainable. Moreover, since thermal efficiency can be raised in an operation of an anion, setting time can be shortened. moreover, since hair is deep and the molecule of the water made detailed in the operation of an anion carries out until osmosis, the hair which reduces static electricity and is glossy is maintainable.

[0006]

[The gestalt of implementation of a design]

Hereafter, an example of the gestalt of operation of this design is explained to a detail based on a drawing.

Drawing 1 is the explanatory view showing the condition of equipping the receptacle of a hot curler wearing base with the hot curler of the gestalt of this operation, and heating it.

The hot curler A of the gestalt of this operation is considering curler HOBIN 1, the plug 2, and the heater 3 as main configurations.

[0007]

Said curler HOBIN 1 is for winding around the hair of hair and attaching curl to hair, and is formed in tubed with the heat resistant resin which kneaded the multi-native element powdery part which ground and formed many native elements. As heat resistant resin, the polyester elastomer is used with the gestalt of this operation. 10 is the projection formed in the periphery of curler HOBIN 1, in order to twist around the hair of hair. [0008] [much]

Many native elements use silicon as a principal component like pearlite, pitchstone, or tourmaline (tourmaline), and mean the mineral with which many elements are contained with sufficient balance. A ball mill etc. grinds these many native elements, for example, pearlite, to about 1-3 microns, and a multi-native element powdery part is formed. As for a multi-native element powdery part, it is desirable to use two or more kinds, blending them suitably. In addition, pearlite consists of the following component.

[Table 1]

無水珪素	(SiO_2)	71.94 %
酸化アルミニウム	(Al_2O_3)	14.94 %
酸化鉄	(Fe_2O_3)	2.54 %
酸化マグネシウム	(MgO)	0.44 %
酸化カルシウム	(CaO)	2.47 %
酸化アルカリ	($\text{K}_2\text{O} + \text{Na}_2\text{O}$)	6.87 %
酸化マンガン	(MnO)	0.03 %
無水磷酸	(P_2O_5)	0.14 %
熱灼減量		3.43 %
乾燥減量	(110度における)	0.07 %
その他チタン		痕 跡

[0009]

A multi-native element powdery part may make this knead with a polyester elastomer with a powdery part, and after mixing this with water and heating or pressurizing, it may use for a supernatant remaining as it is or the thing used as powder by freeze-drying or spray drying. It is made, as for the mixed rate of many native elements to a polyester elastomer, for the capacity of said powdery part to become about 1 - 3% of a polyester elastomer.

[0010]

Said plug 2 is for making the heater 3 inserted and built in the receptacle 40 of the hot curler wearing base 4 generate heat. a plug 2 -- a central conductor 20 and an outside -- it is formed with a conductor 21 and connects with the heat sink 6 (the heat sink of a near side is omitting in the drawing.) of two electrode combination arranged so that both sides of the heater 3 with which the heater guide 5 was equipped may be contacted, respectively. Therefore, if a plug 2 is inserted in a receptacle 40, it will form so that it may energize at a heater 3 and it may generate heat. the terminal for central conductor 20 in 22 in drawing and 23 -- an outside -- the terminal for conductors 21 and 24 are connection plates which connect a central conductor 20 and one heat sink 6. [in addition,] an outside -- the connection plate which connects a conductor 21 and the heat sink of another side is omitted. 25 is a plug caulking base.

[0011]

Said heater 3 is for heating curler HOBIN 1. The PTC thermistor is used with the gestalt of this operation.

In addition, 41 are a thermostat label for telling that, as for the cap of a receptacle 40, and 42, curler HOBIN 1 became a plug guide, and 7 became optimal temperature among drawing, and it is red before heating, and it forms after heating so that it may become black. Moreover, 8 is a power cord.

[0012]

Therefore, when using the hot curler A of the gestalt of this operation, it heats until it inserts and equips the receptacle 40 of the hot curler wearing base 4 with the plug 2 of a hot curler A, it energizes at a heater 3 and a hot curler A becomes predetermined temperature, as shown in drawing 1 . and predetermined temperature -- becoming -- if -- a hot curler A -- removing -- hair -- it twists around hair, it fixes by the pin (not shown), and curl is attached.

[0013]

Since curler HOBIN 1 is fabricated in the hot curler A of the gestalt of this operation by the polyester elastomer which kneaded the multi-native element powdery part which ground and formed many native elements an anion occurs from curler HOBIN 1, the molecule ensemble of the water with which it is contained in hair can be made fine, hair is deep, until osmosis can be carried out, the moisturization balance of hair can be prepared by that cause, and beautiful firm curl can be attached to a healthy condition in the state of *****. Moreover, since the protein of hair is activated according to an operation of an anion, as for hair, health hair is always maintainable. Moreover, since thermal efficiency can be raised in an operation of an anion, setting time can be shortened. moreover, since hair is deep and the molecule of the water made detailed in the operation of an anion carries out until osmosis, the hair which reduces static electricity and is glossy is maintainable. Moreover, curl can be finely attached now by making an anion act on hair also with the hair damaged that hair coloring, Palmer, and a drier guess too much or the hair which is hard to set by the vellus.

[0014]

As mentioned above, although the gestalt of operation of this design has been explained, the concrete configuration of this design is not limited to the gestalt of this operation, and even if the design change of the range which does not deviate from the summary of a design etc. occurs, it is included in this design.

[0015]

[Effect of the Device]

As mentioned above, since it forms with the heat resistant resin which kneaded the multi-native element

powdery part which ground many native elements and formed curler HOBIN in the hot curler of this design as explained, an anion occurs from curler HOBIN, it can mineral-ize the moisture in hair, the protein in hair can be activated, and it can consider as the hair which is always glossy with health hair. since curler HOBIN is formed with the heat resistant resin which kneaded the multi-native element powdery part which ground and formed many native elements, the molecule ensemble of the water contained in the hair of hair can be made fine according to an operation of the anion generated from a multi-native element powdery part, hair is deep, until osmosis can be carried out, the moisturization balance of hair can be prepared by that cause, and where a healthy condition is approached, beautiful firm curl can be attached. Moreover, since thermal efficiency can be raised in an operation of an anion, setting time can be shortened. moreover, since hair is deep and the molecule of the water made detailed in the operation of an anion carries out until osmosis, the hair which reduces static electricity and is glossy is maintainable.

[Translation done.]

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TECHNICAL FIELD

[The technical field to which a design belongs]

This design is related with the amelioration technique of the hot curler of the plug-in type which contained the heater in the interior of curler HOBIN.

[0002]

[Translation done.]

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PRIOR ART

[Description of the Prior Art]

After making an internal heater energize a hot curler, and making it generate heat, then heating curler HOBIN, it is wound around the hair of hair, it fixes by the pin, and it attaches curl to the hair of hair.
[0003]

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EFFECT OF THE INVENTION

[Effect of the Device]

As mentioned above, since it forms with the heat resistant resin which kneaded the multi-native element powdery part which ground many native elements and formed curler HOBIN in the hot curler of this design as explained, an anion occurs from curler HOBIN, it can mineral-ize the moisture in hair, the protein in hair can be activated, and it can consider as the hair which is always glossy with health hair. since curler HOBIN is formed with the heat resistant resin which kneaded the multi-native element powdery part which ground and formed many native elements, the molecule ensemble of the water contained in the hair of hair can be made fine according to an operation of the anion generated from a multi-native element powdery part, hair is deep, until osmosis can be carried out, the moisturization balance of hair can be prepared by that cause, and where a healthy condition is approached, beautiful firm curl can be attached. Moreover, since thermal efficiency can be raised in an operation of an anion, setting time can be shortened. moreover, since hair is deep and the molecule of the water made detailed in the operation of an anion carries out until osmosis, the hair which reduces static electricity and is glossy is maintainable.

[Translation done.]

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Device]

However, since the conventional hot curler only fabricated curler HOBIN with plastics, when curl was attached to the hair of hair using this, heat hurt its hair, or the luster of it was lost to hair, and it had the problem of being hard to set the vellus. Moreover, since thermal efficiency was bad, there was also a problem that compaction of setting time could not be performed etc.

Firmly, its hair is hurt or the place which it was made in order that the hot curler of this design might solve this conventional trouble, and is made into the purpose is to offer the new hot curler which cannot lose luster and can also aim at compaction of setting time further while being able to attach curl finely and early.

[0004]

[Translation done.]

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MEANS

[Means for Solving the Problem]

The configuration fabricated with the hot curler of this design as said The means for solving a technical problem with the heat resistant resin which kneaded the multi-native element powdery part which was the hot curler of the plug-in type which contained the heater in the interior of curler HOBIN, ground many native elements and formed said curler HOBIN was adopted.

[0005]

since curler HOBIN forms with the heat resistant resin which kneaded the multi-native element powdery part which ground and formed many native elements in the hot curler of this design, the molecule ensemble of the water contained in the hair of hair makes fine according to an operation of the anion generated from a multi-native element powdery part, hair is deep, until osmosis can carry out, the moisturization balance of hair can prepare by that cause, and beautiful firm curl can attach in the condition brought close to a healthy condition. Moreover, since the protein of hair is activated according to an operation of an anion, as for hair, health hair is always maintainable. Moreover, since thermal efficiency can be raised in an operation of an anion, setting time can be shortened. moreover, since hair is deep and the molecule of the water made detailed in the operation of an anion carries out until osmosis, the hair which reduces static electricity and is glossy is maintainable.

[0006]

[The gestalt of implementation of a design]

Hereafter, an example of the gestalt of operation of this design is explained to a detail based on a drawing.

Drawing 1 is the explanatory view showing the condition of equipping the receptacle of a hot curler wearing base with the hot curler of the gestalt of this operation, and heating it.

The hot curler A of the gestalt of this operation is considering curler HOBIN 1, the plug 2, and the heater 3 as main configurations.

[0007]

Said curler HOBIN 1 is for winding around the hair of hair and attaching curl to hair, and is formed in tubed with the heat resistant resin which kneaded the multi-native element powdery part which ground and formed many native elements. As heat resistant resin, the polyester elastomer is used with the gestalt of this operation. 10 is the projection formed in the periphery of curler HOBIN 1, in order to twist around the hair of hair. [0008] [much]

Many native elements use silicon as a principal component like pearlite, pitchstone, or tourmaline (tourmaline), and mean the mineral with which many elements are contained with sufficient balance. A ball mill etc. grinds these many native elements, for example, pearlite, to about 1-3 microns, and a multi-native element powdery part is formed. As for a multi-native element powdery part, it is desirable to use two or more kinds, blending them suitably. In addition, pearlite consists of the following component.

[Table 1]

無水珪素 (SiO ₂)	71.94 %
酸化アルミニウム (Al ₂ O ₃)	14.94 %
酸化鉄 (Fe ₂ O ₃)	2.54 %
酸化マグネシウム (MgO)	0.44 %
酸化カルシウム (CaO)	2.47 %
酸化アルカリ (K ₂ O+Na ₂ O)	6.87 %
酸化マンガン (MnO)	0.03 %
無水磷酸 (P ₂ O ₅)	0.14 %
熱灼減量	3.43 %
乾燥減量 (110度における)	0.07 %
その他チタン	痕 跡

[0009]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the explanatory view showing the condition of having equipped the receptacle of a hot curler wearing base with the hot curler which is the gestalt of operation of this design.

[Description of Notations]

A Hot curler

1 Curler HOBIN

2 Plug

3 Heater

[Translation done.]

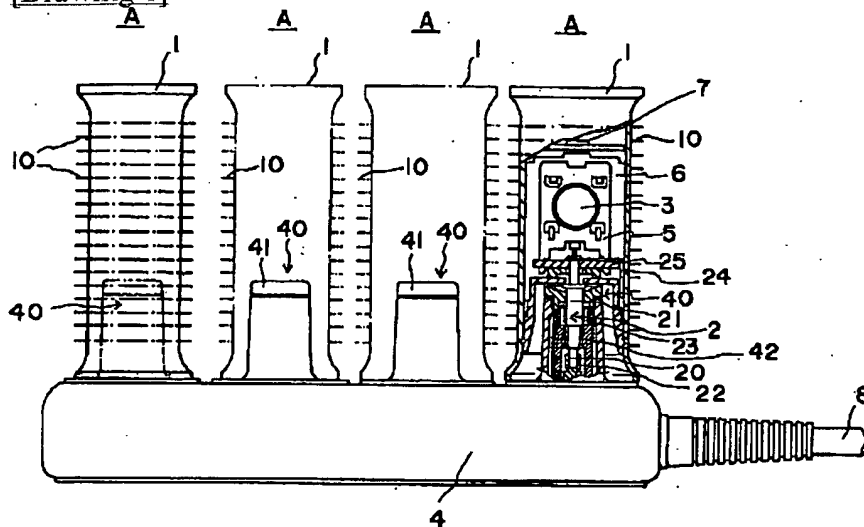
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DRAWINGS

[Drawing 1]



[Translation done.]

